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BEFORE COMPLETING FORM REPORT DOCUMENTATION PAGE . REPORT NUMBER RECIPIENT'S CATALOG NUMBER DR 1023 19702A GSRS Number 388, Number B-I7 Round M 6. PERFORMING ORG. REPORT NUMBER 7. AUTHOR(e) S. CONTRACT OR GRANT NUMBER(+) White SAnds Meteorological Team DA Task 1T6657-2D126-02 9. PERFORMING ORGANIZATION NAME AND ADDRESS O. PROGRAM ELEMENT, PROJECT, AREA & WORK UNIT NUMBERS 11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Comd May 179 Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 14. MONITORING AGENCY NAME & ADDRESS(II different from Controlling Office) 15. SECURITY CLASS. (of this report) US Army Electronics Research & Development Comd UNCLASSIFIED 15. DECLASSIFICATION/DOWNGRADING 16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited. 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, If different from Report) 18. SUPPLEMENTARY 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Wind 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19702A GSRS, Missile No. 338, Round No. E-17, are presented in tabular form. 410 6 FORM 1473 EDITION OF ! NOV 63 IS OBSOLETE

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INTRODUCTION

HTAOR

19702A GSRS , Missile Number 388 , Round Number B-17, was launched White Sands Missile Range (WSMR), New Mexico, at 0930 MDT, . The scheduled launch time was 0930 MDT. from LC-33 , 30 May 1979

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

0

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m³), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air

11, 68 ft, 102 ft and 208 ft

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-33 1020 meters (30-meter increments) 0920 MDT and 0930 MDT

MET TOWER - 4 Pendix Model total Administra 25 42

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 28,000 feet in 500-feet increments.

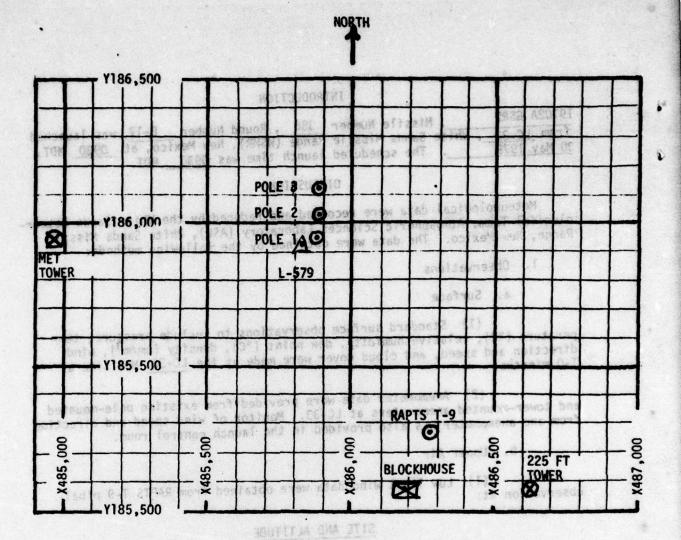
SITE AND TIME

225 FT VIND TOWER - 2 Bendix Model 1-120 Adecompters at 35 Ft, 88 Ft, 128 Ft.

168 ft and 200 ft with 5 X-Y visual indicators in Michaeles

PARTS 1-9 - Radar Automotto Pilot-Balloon 1/8 100 System 1-9 Rader

SMR 0845 MST



 MET TOWER - 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.

TOM OCCO bes TON 0000 (commerce fact ements) come occ (6-3)

- 2. POLE ANE: MOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.

12M 2080 002

4. RAPTS T-9 - Radar Automatic Pilot-Balloon Tracking System T-9 Radar

TABLE 1. SURFACE OBSERVATIONS TAKEN AT 0930 MDT, 30 MAY 1979 AT LC-33, 19702A GSRS, MISSILE NO. 388, ROUND NO. B-17

龙井

SPEED 相图图 0.51

0.81

0.51

O.Ef

0.81

aumobed'

58.0 ft. act

1

3104.	1.3.09	14 3304	
SELEVATION DESPE	3977.30	FT/MSL 210	T-TIME 322
PRESSURE	879.5	MBS	λε-
TEMPERATURE	26.5	0 °C 550	
RELATIVE HUMIDITY	27	1 0 % ato.	01-
DEW POINT	5.9	To ec are	0.0
DENSITY	1018	GM/M ³	+ 01+
WIND SPEED	07	MPH	
WIND DIRECTION	060	DEGREES	or acryl
CLOUD COVER	76 1 Ever v	Ců°	L mans
CLOUD COVER	1	Ac.	

14033,62

APOLE #3 = XASS_STELLED 30.011,3874 83.6 Ft. AGL HADES BZ

> MOTE: wind directions are deterenced to the firsten action the or true north true north

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

	POLE #1			POLE #2			POLE #3	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEED
-30	013	11.0	-30	800	11.0	-30	020	12.0
-20	022	11.0	-20	012	11.0	-20	017	13.0
-10	015	12.0	-10	020	10.0	-10	015	12.0
0.0	010	11.0	0.0	022	11.0	0.0	015	13.0
+10	006	11.0	+10	018	12.0	+10	015	12.0

Type from	19702/ LC-3	A GS	RS	, Miss 30 May	ile No. 1979	388 at (, Round 0930 MDT	No.	B-17		launched
	POLE #	ı -	X485	,874.29	Y185	,958.90	H4018.	74	38.7	ft.	AGL
	POLE #	2 =	X485	,874.93	Y186	,012.00	H4033.	57	53.0	ft.	AGL
	POLE #	3 =	X485	,877.29	Y186	,116.06	H4063.9	92	83.6	ft.	AGL

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

Page 1 of 2 Pages

0300 放射料

12.0

8.01

8,11

0.9

0.5

or true north true north .

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

TABLE 4 PILOT-BALLDON-NEASURED WIND DATA (30-METER INCREMENTS)

	7 7 7 6 8	TILL	- Andrewson of			THOU 3H
PIRECTION	EVEL #1	iak Ma	63.1	LEVEL #2	133816 133816	PRITIN . 10A
600		10 I	0.8	,	080	348
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	* SPEED	30
-30	009	10	-30	018	สสา	00
-20	015	09	-20	360	e809	00
-10	015	07	-10 0	360	V3/07	120
0.0	012	06	0.0	016	₫ 08	150
+10	002	07	+10 0	009	6310	981
too t	EVEL #3		a l	LEVEL #4	The second secon	ors
67.3.6	102 ft.			202 ft.	613	045
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR	SPEED MPH	270
-30.	008	05	-30	010	1001	300
-20	360	02	-20	010	8013	330
-1000	009	02	-10 0	002	8011	004
0.0	012	04	0.0	003	thad2 to	Tense Pos
+10	009	06	+10 00	020	pe_312 mo	leased fr

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base) , Round No. B-17 launched Type 19702A GSRS , Missile No. 388 from LC-33 on 30 May 1979 at 0930 MDT . 2001 3001 balls 13108 or true north true north -NOTE: Wind directions are referenced to the firing azimuth

TABLE 4. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

TABLE 3. 10-33 MEYEOROLOGICAL TOWER AMEMOMETER-MEASURED WINDS (202 FT. TOWER)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	050	6.0
30	048	3.0
60	Calm 0	0-1
90	P(056 0	0.5
120	067	1.0
150	045	7.5
180 .	023	14.0
210	.018 34	14.5
240	013	14.5
270	010	13.5
300	007	12.0
330	008	12.5
360	008	13.0

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH	
390	. 009	12.0	
420	009	10.5	
450 000	010	11.5	
480	010	12.0	
510	009	11.5	
540	300	11.0	
570	005	12.0	
600	001	12.5	
630	357	10.5	
660	352	8.0	
690	357	8.0	
720	001	7.5	
750	005	7.0	

or true north brue morth

Release Point Coordinates (WSTM): X486,037.24 Y486,037.24 H3977.30

Released from <u>LC-33</u> on <u>30 May 1979</u> at <u>0920 MDT</u>.

Type <u>19702A GSRS</u>, Missile No. <u>388</u>, Round No. <u>8-17</u> launched from <u>LC-33</u> on <u>30 May 1979</u> at <u>0930 MDT</u>.

NOTE: Wind directions are referenced to the firing azimuth or true north <u>true north</u>.

Mint's which directions are referenced to the first aright

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	33/2009	6.0
0.810	001009	6.5
840	009	6.5
870	82 005	7.0
900	18360	087.0
3.930	354	6.5
960	\$0348	01 5. 5
990	345	6.0
1020	1342	6.5
1050	CHE .	080
1080	596	660
0.1110	349	089
0 1140	348	720
1170	355	697 ₆₉
1200	9488,037.24	1,24
1230		
1260		OM COU
1290	dživatsa g	ne firis
1320		
1350		
1380	*	
1410		

Page 1 of 2 Pages

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH		HEIGHT METERS AGL	DIRECTION	SPEED
780	33 009	6.0	The second	1440	339336	198
0.810	09/009	6.5		1470	080	345
840	009	6.5		1500	080	08
870	\$8 005	7.0		1530	eat	Go
900	18 360	087.0		1560	380	<u> 54</u>
930	354	916.5		1590	106	021
960	30348	015.5	L. W.	1620	100	Gel
990	345	6.0		1650	034	081
1020	342	6.5		1680	006	0.00
1050	CHE .	080	-	1710	906	U\$
1080	ete · l	680		1740	000	13/12
0.1110	349	093		1770	300	LAK.
1140	344	720		1800	100	1988
1170	355	este 1	·	1830	375	Qa£
1200	\$5.7E0,8847	45, 75	4) X486 (4 0 May 197)	1860	Point Coerdi	ne lease Releases
1230	T1-9-07 Brue		tile No. 3	1890	2005 ASST	Type }
1260		DIM COSE	26	1920		01 mont
1290	dantsa n	the first	es beanem	1950	ind direction	NOTE: 7
1320				1980		
1350				2010		
1380				2040		
1410				2070		

TABLE 5. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	060	7.0
30	030	6.0
60	359	5.0
90	360	7.5
120	001	10.0
150	001	12.0
180 .	360 .	13.5
210	360	13.5
240	360	13.5
270	003	13.5
300	006	13.0
330	001	13.5
360	355	14.0

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HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH	
390	360	13.0	
420	005	12.0	
450	358	13.5	
480	0351	14.5	
510	₽∂ 357	15.5	
540	002	16.5	
570	005	14.5	
600	007	12.0	
630	360	12.5	
660	353	13.0	
690	349	11.0	
720	344	9.0	
750	355	8.0	

Release Point Coordinates (WSTM): X486,037.24 Y486,037.24 H3977.30 Released from LC-33 on 30 May 1979 at 0930 MDT.

Type 19702A GSRS , Missile No. 388 , Round No. B-17 launched from LC-33 on 30 May 1979 at 0930 MDT.

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	005	6.5
810	005	7.0
840	004	7.0
870	001	6.5
900	357	6.0
930	353	7.0
960	348	8.0
990	347	7.0
1020	346	6.0
1050		
1080		
1110		
1140		
1170		
1200		
1230		
1260		
1290		
1320		
1350		
1380		
1410		

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
1440		
1470		1000
1500		0.00
1530		2000
1560		
1590		
1620		
1650	00 24	15
1680		1
1710	0. U 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100
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1860		
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1920	OF STATE	10 H
1950		1 D
1980		400
2010		30
2040		. Date 1
2070		5005 M W W

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A L	REL . HUN.	24.0	23.0	0.94	48.0		38.0	15.0	15.0	16.0	20.0
SIGNIFICANT LEVEL DATA '1500050158 S M R	TEMPERATURE AIR DEWPOINT DEGREES CENTIGKADE	. 3.6	0.0	0.9	-10.5	-18.9	-27.4	-28.9	-29.8	-33.1	-38.6
SIGNIFICANT 1500C S M R	TEMPE AIR DEGREES	27.6	23.1	4.9	6	2.6-		-6.7	-7.7	-12.6	-21.8
d	PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	3997.3	4873.2	10260.4	13658.2	16707.9	17582.5	18367.1	8.49061	21271.9	24628.3
N ALTITUDE 3997.30 FEET MSL 7 79 0845 HRS MST 310N NO. 158	PRESSURE MILLIBARS	859.3									
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DIRECTION DECREES

ASCENSION NO.	NO. 156							106.	106.42307 LON DEG
GEUMETHIC ALTITUDE MSL FEET	PRESSUNE MILLIBANS	TEMP AIR DESREES	TEMPERATURE AIR DEWPOINT ESREES CENTIGRADE	REL.HUM. PERCENT	DENSITY 6M/CUBIC METER	SPEEU OF SOUND KNOTS	WIND DATA DIRECTION SPEED DESREES(TN) KNOTS	SPEED KNOTS	INDEX OF REFRACTION
3997.3	876.3	27.6	5.2	24.0	1011-2		300.0	8.0	1.000262
40000	876:2	57.6	2.5	24.0	1011-1				1.000262
4500.0	861.2	24.0	1:1	22.2	1006.8	672.5			1.000253
50000	4.0.50	22.7	6.	23.5	593.3				1.000250
5560.0	831.1	21.3	6.	25.7					1.000247
0.0000	810.3	19.9	8.	27.8	1.	667			1.000244
6500.0	801.8	18.5	•	29.9		660	350.6	7.1	1.060241
7000-0	787.5	17.1		32.0	942.3	499	346.3	7.3	1.000238
7500.0	173.5	15.7	0:-	34.2	•	663	344.3	7.9	1.000235
0.0000	7.657	14.3	# · ·	36.3	918.0	661	338.9	9.0	1.000232
8500.0	746.2	12.9	6:-	38.4	1.906		325-1		1.000228
0.0006	732.9	11.5	-1.4	9.04	894.4		310-1	11.3	1.000225
9500.0	119.9	1001	-2.0	42.7	883.0		8.162	13.9	1.000222
0.00001	/07-1	8.7	-2.6	8.44	871.6		5.262	16.4	1.000218
0.00501	694.3	7.4	-3.6		860-1		8.062	18.2	1.000214
11000.0	681.6	1.9	6.4	45.0	848.1		589.9	18.8	1.000210
0.00011	0.690	4.9	2.5	. n . n	836.3		291.0	18.2	1.000205
125c0.0	0.440	200	-8-3		8130	647.1	1.000	15.5	1.000198
13000.0	632.3	6.	-9.5	46.6	802.3	645.5		14.4	1.000194
13560.0	620.5	5:-	-10.2	47.7	791.4	645.9	293-1	13.5	1-000191
14000.0	608-7	-1-7	-11-4	47.2	779.9	645.4	5.207	13.1	1.000187
14500.0	597.1	-2.9	-12.8	46.1	769.4	6.040	509.6	13.4	1.000183
0.05051	285.7	0.51	-14.2	44.0	757-1	639.5	45754	15.2	1-000179
n-nûcc1	2.4.0	79.5	-15.6	43.B	746.0	638.1	249.5	17.6	1.000176
0-0000	2020	9 10	-16.9	45.6	735.0	630.7	240.5	20.5	1.000172
-92.7	-700	000	2007-	41.0	1.42/	033.5	7.042	55.4	1.000169
2000		000	1.02-		113.6	633.	241.3	23.4	1.000106
0.000	20100		-62.0	52.9	1.669	633.1	250.5	24.6	1.0001160
0.000	3.175	000	1-67-		•		9.467	25.7	1.000155
0.000			1.62-	0.61		635.8	9.467	20.8	1.000152
145000	40103	25.7	1.05-	0.61	100	0220	0.002	20.3	1.000149
0.0000	2.181	4	;	7.61			203.0	8000	1.000147
ZISO0.0	477.5	-10.6	11.0	18.7	627.4		0.102	0.00	1000
21000-0	463.2	-12.0	- 32.7	15.0	-	0.100	9.007	0.22	1.000142
21500-0	454.1	-13.2	-33.5	16.3	504.4	0630	7.000	200.4	0410001
2200000	445.0	-14.6	-34.2	16.9	599.4	620.5	200.4	22.8	1.000135
	11.727		10						2000
0.00077	2000	0.01	-33.0	1/.5	2.0.0	274.0	200.4	22.7	1.066133

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DETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG	INDEX OF KEFRACTION	1.000129	1-000127	1.000123	1.000121	1.000119	1.000117	1.000115	1.000114	-				18 10 10 10 10 10 10 10 10 10 10 10 10 10	1 * 2003 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.000055	のの理想をはくか	1 + 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	作品のないないです。	ののなりのはなった	F 4 20 C C C C C C C C C C C C C C C C C C		* * * * * * * * * * * * * * * * * * *	* TANKS TANK	
6E00ETIC 32-46 105-42	SPEEL KNOTS	26.6	26.9	24.9	23.7	23.9	24.3	22.8		XX S	· 作 · 南州		おをはい	\$ 4 DO		対象をなる	10 to	おとは		0 * 7		*			
5 1 1 2 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	· UIRECTION SI DEGREES(TH) KI	204.3	200.7	270.3	271.0	272.7	274.5	277.1	Spine		ロインない	0.000	8.000	No. Market	47.2.40	27072	7*026	20 × 20 × 20		Assess 2					
8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SPEED OF SOUND KNOTS	621.5	619.8		614.8	613.4	611.5	606.60	6000	0+0+0	\$50.3	0.400	D. 20 . 20 . 20 .	Sport & St	104040	一 がそれなる	\$20.14	0.4400					0 0		
UPPER AIR L 150006018 S M R	TY 1910	573-1	564.7	547.6	539.3	530.9	522.7	514.0	498.9	Charles and	6-658	1.093	1 × 3 × 5	日本 日本日	は多数な様	九日都備部 .								X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
HIDEONGALS WANGERMEN	REL . HUM. PERCENT	18.7	19.3	20.0	20.0	20.0	20.0	0.00	20.0	(A)	1000年10日	0.24	· 7 * 27 #	460.45	3 × 7 %							- C. W. W. W.	m, t	15.00	
# 1	TEMPERATURE R DEMPOINT RES CENTIGRADE	-36.7	-37.5	-39.5	9.04-	-41.7	-42.9	0.44	-46.3	ACT # 120	W 10-1	\$ 20 m	4.0.1		17.8 % 7							Qr #	W.	43	43
3997.30 FEET MSL. (845 HRS MST	TEMP AIR DEGREES	-18.7	-20-1	9.55	-24.1	-52.5	-26.8	1.02-	-30.8	s n	, , , ,	1000	day of the						×		大汉 3000		T. Santo		100
90 ct	PRESSURE MILLIBARS	418-7	402-1	303.E	385.6	3777.6	369.7	554.5	347.1	0.000			4 1000									94.1.49	12000	9275	
STATION ALTITUDE STANT TO ASCENSION NO.	GEUMETHIC ALTITUDE MSL FEET	23500.0	24500-0	25000.0	25500.0	200000	26500.0	77500.0	28000-0		1100010	C - 1 2 C - 1				12			900004C#		0.039E	0.9050	C - 4304	270026	0,0000

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STATICN ALTITUDE 3997.30 FEET MSL 30 MAY 79 0645 HRS MST ASCENSION NO. 138

MANDATORY LEVELS 1500060150 S M R

GEODETIC COURDINATES 32.48034 LAT DEG 106.42307 LON DEG

PRESSURE	PRESSURE GEOPOTENTIAL		PERATURE	REL . HUM.	N IN	DATA CA
ILLIBARS	FEET	DEGREES	SREES CENTIGRADE	PERCENT .	DIRECTION SP DEGREES(TN) KN	TN) KNOTS
850.0		23.1	6.		0.6666	XX0.9999
800.0	6587.	18.4	•	30.	350.1	7.1
750.0		13.3	8	33.	329.0	9.7
700.0		7.9	-3.0	*0*	561.5	17.5
650.0	12259.	2.9	-7.3	45.	295.0	10.2
609		-2.6	-12.5	• 0 9	272.3	13.3
550.0		-7.8	-18.7	41.	246.5	22.6
500.0		-7.7	-29.8	10.	263.4	25.1
450.0		-13.8	-33.6	17.	261.5	22.5
400-0		-21.8	-38.0	20.	209.7	25.9
350.0		-30.3	-45.8	20.		•

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STATION ALTITUDE 3997.30 FEET MSL 30 MAY 79 0845 HRS MST ASCENSION NO. 158

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ų.	PRESSURE MILLIBARS											
TEMPERATUR	AIR DEG C	-30.3	-21.8	-13.8	-7.7	-7.8	-2.6	2.9	7.9	13.3	18.4	23.1
	DEG C	16	17	. 50	23	=	27	==	==	**	P1	,,,
	E-F	***6566-	13.	-11	•;•	11.	7.	•	•	ë.	:	****6666-
DATA	S-S S-S S-S	***6666-	:	5.	:		÷	;		÷	;	***6666-
MIND	SPEED	***6666	13.	12.	13.	12.	7.	÷	.	••	ż	***6666
	UIRECTION DEG (TN)											
GEOPOTENTIAL	ALTITUDE DECAMETERS	646.	.647	061.	280.	2000	438.	3/4.	513.	• 200	-103	148.

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

MINECIAN POSTS